

ANATOMY, PHYSIOLOGY, & CELL BIOLOGY (APC)

School of Veterinary Medicine

APC 092 – Internship (1-12 units)

Course Description: Internship experience off and on campus in all subject areas offered in the Department of Anatomy, Physiology & Cell Biology. Internships are supervised by a member of the faculty.

Prerequisite(s): Consent of instructor; lower division standing.

Learning Activities: Internship 3-36 hour(s).

Repeat Credit: May be repeated.

Grade Mode: Pass/No Pass only.

APC 099 – Special Study for Undergraduates (1-5 units)

Course Description: Special study for undergraduates.

Prerequisite(s): Consent of instructor.

Learning Activities: Variable 3-15 hour(s).

Repeat Credit: May be repeated.

Grade Mode: Pass/No Pass only.

APC 100 – Comparative Vertebrate Organology (4 units)

Course Description: Functional anatomy of major organ systems in vertebrates. Each system examined from cellular to gross level in fish, birds, and mammals. Emphasis on how differentiated cell types are integrated into tissues and organs to perform diverse physiological functions.

Prerequisite(s): (BIS 001A, BIS 001B) or (BIS 002A, BIS 002B).

Learning Activities: Lecture 3 hour(s), Laboratory 3 hour(s).

Cross Listing: NPB 123.

Grade Mode: Letter.

APC 126 – Fundamentals of Immunology (3 units)

Course Description: Fundamental concepts of immunology including components of the immune system, initiation and regulation of the immune response, infection and immunity, allergy and hypersensitivity, autoimmunity, and transplantation.

Prerequisite(s): BIS 102 or BIS 105 or ABI 102; or equivalent, or consent of instructor.

Learning Activities: Lecture 3 hour(s).

Cross Listing: PMI 126.

Grade Mode: Letter.

APC 192 – Internship (1-15 units)

Course Description: Internship experience off and on campus in all subject areas offered in the Department of Anatomy, Physiology & Cell Biology. Internships are supervised by a member of the faculty.

Prerequisite(s): Upper division standing; approval of internship.

Learning Activities: Internship 3-45 hour(s).

Repeat Credit: May be repeated when topic differs.

Grade Mode: Pass/No Pass only.

APC 198 – Directed Group Study (1-5 units)

Course Description: Directed group study.

Prerequisite(s): Consent of instructor.

Learning Activities: Variable.

Grade Mode: Pass/No Pass only.

APC 199 – Special Study for Advanced Undergraduates (1-5 units)

Course Description: Special study for advanced undergraduates.

Prerequisite(s): Consent of instructor.

Learning Activities: Laboratory 3-15 hour(s).

Grade Mode: Pass/No Pass only.

APC 286 – Basics of Microscopy & Cellular Imaging (2 units)

Course Description: Practical applications of basic microscope techniques used to image cells and tissues with the goal of using these techniques to generate publication quality images. Principles of light, epifluorescent, confocal and electron microscopy, their applications and limitations.

Prerequisite(s): Consent of instructor; graduate standing.

Learning Activities: Lecture 1 hour(s), Laboratory 2 hour(s).

Enrollment Restriction(s): Limited to 20 students.

Grade Mode: Letter.

APC 290 – Seminar (1 unit)

Course Description: Discussion and critical evaluation of advanced topics and current trends in research.

Learning Activities: Seminar 1 hour(s).

Grade Mode: Pass/No Pass only.

APC 291 – Topics in Biology of Respiratory System (1 unit)

Course Description: Topics concerning structure and function of respiratory system. Possible topics include: lung growth, pulmonary reaction to toxicants, pulmonary inflammation, lung metabolism, biology of lung cells, tracheobronchial epithelium, nasal cavity structure and function.

Prerequisite(s): Consent of instructor; graduate standing.

Learning Activities: Seminar 1 hour(s).

Repeat Credit: May be repeated.

Grade Mode: Satisfactory/Unsatisfactory only.

APC 298 – Group Study (1-5 units)

Course Description: Group study.

Prerequisite(s): Consent of instructor.

Learning Activities: Laboratory 6-15 hour(s).

Grade Mode: Letter.

APC 299 – Research (1-12 units)

Course Description: Research.

Prerequisite(s): Consent of instructor.

Learning Activities: Laboratory 6-36 hour(s).

Grade Mode: Satisfactory/Unsatisfactory only.